PYTHON M8

LWIR Thermal Camera

Python M8 is a versatile and ultra-compact
LWIR camera core offering a
comprehensive suite of features
including Camera Link, GigE, SDI, LVDS,
USB 3.0 or CMOS digital outputs.

19 mm

19 mm

25mm f/1.2

M8 Models:
M8-640-60-17 | M8-640-60-17-Z | M8-320-60-17 | M8-320-60-12

A Safer Tomorrow

VERSATILE, RUGGED AND RELIABLE

Python's M8 exceptional sensitivity coupled with advanced digital image enhancement allows for a new reference point when it comes to sharpness and clarity of infrared images. Additionally, it's standard 60 Hz frame rate provides best image quality for fast moving objects in a low power and compact package.

FEATURES

- 30 and 60 Hz frame rate
- No availability restrictions
- 14-bit and 8-bit digital data
- NTSC/PAL analog video
- Intuitive user interface
- Low power consumption
- Built-in image processing capabilities

SPECIFICATIONS

	Python M8
Array Type	640 x 480 a-Si Microbolometer
	384 x 288 a-Si Microbolometer
Pixel Pitch	17 and 12 micron
Spectral Band	8.0 to 14.0 micron
NETD/ Performance	< 50 mK @ f/1.0
Analog Output	30/25 Hz (NTSC/PAL)
Digital Output	Camera Link
14 or 8-bit	GigE/USB 3.0/SDI/3.3V parallel CMOS/Serial LVDS
Digital Frame Rate	60/50 Hz (NTSC/PAL) max
Input Voltage	4 to 5.5 VDC
	6 to 12 VDC for Camera Link, GigE, USB 3.0 Options
Power Requirements	< 1.2 W
	< 1.6 W for Camera Link Option
	< 2.7 W forGigE or USB 3.0 Option
Time to Image	<4 seconds
Size without lens	1.6" x 1.6" x 1.1"
	1.6" x 1.6" x 1.6" for Camera Link Option
	1.6" x 1.6" x 1.8" for GigE Option or USB 3.0 Option
Weight without lens	50 g
	150 g for Camera Link Option
	170 g for GigE Option or USB 3.0 Option
Operating Temperature Range	-40°C to + 60°C
Non-Operating Temperature Range	-45°C to + 85°C
Scene Temperature Range	-40°C to + 150°C; -40°C to + 500°C
Environmental Specifications	Meets common application's Shock, Vibration, Humidity, Operation Altitude requirements
ROHS	Compliant
REACH, WEEE, Mil-Spec	Provided on request
Image Processing	2x,4x, 8x Digital zoom;Image Orientation; Digital Filtering (de-noising, sharpening, contrast enhancement); Built-in Self-Test; Image Optimization (BPR, NUC)
Camera Control	SDK or GUI
Digital Interface	Camera Link, GigE, USB 3.0, SDI, LVCMOS level, LVDS, UART, RS-232, external sync input/output

VERSATILITY

- Camera Link
- GigE
- USB 3.0
- SDI
- Available resolution
  - 640 x 480
  - 384 x 288
- Various lens options
- Lens-less option
- Various custom options

STANDARD LENS OPTIONS

- Fixed focus:
  7.5, 13, 17, 25, 35, 50 mm
- Zoom: 35 – 105 mm
- Lens-less option
- Various custom lenses

ACCESSORIES

- SDK
- Video Processing Module Kit
- Focus Tool
- Tripod Mount Adapter
- Locking Nut and O-ring
- Locking Nut Tool
- Wearsaver
- Advanced Image Processing Software

A SAFER TOMORROW